

WHAT IS CLAIMED IS:

1. A combination weighing device for weighing respective groups of objects to determine a partial combination of the groups of objects having a total weight
5 approximating to a target combination weight, said device comprising:

a plurality of transport elements transporting respective groups of objects;

a transport quantity measuring element measuring weights of respective groups of objects transported by said plurality of transport elements; and

a transport quantity control element controlling said weights of respective
10 groups of objects on the basis of prescribed parameters, said transport quantity control element comprising:

an operation element obtaining an average and standard deviation of weights of respective groups of objects corresponding to a prescribed frequency for each transport element on the basis of weights of respective groups of objects corresponding to said
15 prescribed frequency measured by said transport quantity measuring element; and

a parameter operation element operating said prescribed parameters on the basis of said average and said standard deviation of each transport element obtained by said operation element, said parameter operation element selecting one of at least two operation techniques to operate prescribed parameter of each transport element in
20 response to said standard deviation obtained by said operation element.

2. The combination weighing device according to claim 1, wherein

said transport quantity control element controls driving strength for said plurality of transport elements thereby controlling weights of respective groups of
25 objects.

3. The combination weighing device according to claim 1, wherein
said transport quantity control element controls driving time for said plurality
of transport elements thereby controlling weights of respective groups of objects.

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4. The combination weighing device according to claim 1, wherein
said transport quantity control element further comprises:
a transport state detection element detecting an overscale state or an empty state
of each transport quantity measuring element on the basis of said weights of respective
10 groups of objects measured by said transport quantity measuring element;
and wherein said parameter operation element selecting one of at least two
operation techniques in response to the result of detection of said transport state detection
element.